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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/901,517	07/09/2001	Shu Chuen Ho	P / 2778-15	4916
2352	7590 07/02/2003			
OSTROLENK FABER GERB & SOFFEN			EXAMINER	
1180 AVENUE OF THE AMERICAS NEW YORK, NY 100368403			HEITBRINK, TIMOTHY W	
			ART UNIT	PAPER NUMBER
			1722	
			DATE MAILED: 07/02/2003	//

Please find below and/or attached an Office communication concerning this application or proceeding.

	Apr	olication No.	Applicant(s)
			,
Office Action Summary		901,517	HO ET AL.
omec Action Gammary	LAG	ıminer	Art Unit
The MAILING DATE of this com		Heitbrink	1722 r sheet with the correspondence address
Period for Reply	numcation appears	on the cove	aneet with the correspondence address
A SHORTENED STATUTORY PERIO THE MAILING DATE OF THIS COMM - Extensions of time may be available under the provi after SIX (6) MONTHS from the mailing date of this - If the period for reply specified above is less than thi - If NO period for reply is specified above, the maximu - Failure to reply within the set or extended period for - Any reply received by the Office later than three mon earned patent term adjustment. See 37 CFR 1.704(	UNICATION. sions of 37 CFR 1.136(a) communication. inty (30) days, a reply within um statutory period will appl reply will, by statute, cause onths after the mailing date o	In no event, howe the statutory min y and will expire the application t	ever, may a reply be timely filed  nimum of thirty (30) days will be considered timely.  SIX (6) MONTHS from the mailing date of this communication.  become ABANDONED (35 U.S.C. § 133).
1) Responsive to communication(	s) filed on 16 June	2003	
2a) ☐ This action is <b>FINAL</b> .	2b)⊠ This act		nal
	<i>,</i> —		ormal matters, prosecution as to the merits is
closed in accordance with the p			
Disposition of Claims			
4)⊠ Claim(s) <u>1-6</u> is/are pending in the			
4a) Of the above claim(s) <u>7-9</u> is/a	are withdrawn from	consideration	on.
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-6</u> is/are rejected.			
7) Claim(s) is/are objected to			
8) Claim(s) are subject to re Application Papers	striction and/or elec	ction require	ment.
9) The specification is objected to b	y the Everniner		
10) The drawing(s) filed on is/s		r h\□ object	ed to by the Evaminer
<del></del>			d in abeyance. See 37 CFR 1.85(a).
11) The proposed drawing correction			
If approved, corrected drawings ar			
12) The oath or declaration is objecte			
Priority under 35 U.S.C. §§ 119 and 120	•		
13) Acknowledgment is made of a cl	aim for foreign prio	rity under 3	5 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None			<b>3</b> (7(7) (7)
1. Certified copies of the price		e been rece	ived.
2. Certified copies of the price	•		
	ies of the priority do ternational Bureau	ocuments ha	ave been received in this National Stage 17.2(a)).
14) Acknowledgment is made of a cla	im for domestic pric	ority under 3	5 U.S.C. § 119(e) (to a provisional application).
<ul><li>a)  The translation of the foreign</li><li>15)  Acknowledgment is made of a cla</li></ul>			
Attachment(s)			
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Revie     Information Disclosure Statement(s) (PTO-144)		4)	Interview Summary (PTO-413) Paper No(s)  Notice of Informal Patent Application (PTO-152)  Other:
S Patent and Trademark Office PTO-326 (Rev. 04-01)	Office Action S	ummary	Part of Paper No. 11

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1,2,3,5 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Shimizu et al.

Shimizu et al. disclose a mold assembly for encapsulating a lead frame, the mold comprising two mold halves 25,26, one of the mold halves comprising a removable contact section 13 adapted to contact a surface of a lead frame 5D, 5E. The contact section 13 comprises a compressible material allowing for movement relative to the mold half on which it is mounted. See Fig. 9a. Looking at Fig. 9b, one can see where the contact section minimizes seepage of molding material between the mold and the frame.

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Claims 1 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Schmid.

In Fig. 4, Schmid discloses a mold comprising two mold halves 30,32, one of the mold halves comprising a contact section 34 adapted to contact a surface of a semiconductor chip mounted in the mold and profiled to minimize seepage of molding material between the section of the mold and the surface of the chip when associated with part 64b.

Claims 1 and 6 are rejected under 35 U.S.C. 102(e) as being anticipated by Baird

Baird discloses in Fig. 1, a mold comprising two mold halves 10, 11, one of the mold halves comprising a contact section 12,13 adapted to contact a surface of a semiconductor chip 14 mounted in the mold, the contact sections profiled to minimize seepage of molding material between the mold and the surface of the semiconductor chip.

Claims 1-4 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Nishihara et al.

In Figs 7 and 8 of Nishihara et al., a mold comprising two mold halves 12 and 20 is shown. One of the mold halves comprising a removable contact member 24 adapted to contact a surface of a semiconductor chip mounted in the mold, the removable member mounted for movement relative to the mold half to which it is mounted via biasing means 25 to bias the member into a mold cavity defined by the mold halves.

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The member 24 is profiled to minimize seepage of molding material between the section of the mold and the surface of the chip as shown in Fig. 8.

Claims 1,2,5,6 are rejected under 35 U.S.C. 102(b) as being anticipated by Tetreault et al.

Tetreault et al. disclose in Figs. 5 and 7, a mold 10 comprising two mold halves (only one of which is shown), one of the mold halves comprising a removable contact member 26 which is adapted to contact a surface of a semiconductor chip 46 mounted in the mold. The contact section comprises a compressible material (rubber or silicone) which is profiled to minimize seepage of molding material between the section of the mold and the chip

Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Tetreault et al.

Tetreault et al. disclose in Figs. 4 and 6, a mold 10 comprising two mold halves (only one of which is shown), one of the mold halves comprising a removable member 41 which is adapted to contact a surface of a chip 46, the member being mounted for movement relative to the mold half on which it is mounted and biased by member 42.

Claim1-3,5,6 are rejected under 35 U.S.C. 102(e) as being anticipated by Peters et al.

Peters et al. disclose in Fig.1 a mold comprising two mold halves 2 and 3, one of the mold halves comprising a removable compression contact member 11 which is adapted to contact a surface of a semiconductor chip 4 mounted in the mold. Member

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11 is mounted for movement relative to the mold to bias the chip 4 against a peripheral edge of upper mold 3 to minimize seepage of the molding material.

Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Steijer et al.

Steijer et al. disclose in Fig. 3 a mold comprising two mold halves 1,17, one of the mold halves comprising removable contact members 7 adapted to contact a surface of a silicon wafer 5. Members 7 are mounted for movement relative to the mold half on which it is mounted.

Claims 1 and 6 are rejected under 35 U.S.C. 102(e) as being anticipated by Sakurai.

Sakurai in Fig. 3A discloses a mold comprising two mold halves 2a and 2b, the outer portions thereof forming a contact surface contacting a semiconductor chip in order to minimize leakage during injection molding as shown by the finished product depicted in Fig. 3B.

Applicant's arguments with respect to claims 1-6 have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tim Heitbrink whose telephone number is 703-308-3789. The examiner can normally be reached on Tuesday-Friday 5:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda Walker can be reached on 703-308-0457. The fax phone numbers

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for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Jein Akeebrei & Tim Heitbrink Primary Examiner Art Unit 1722

6-26-03

twh June 26, 2003